

FIG. 1

NUCLEOTIDE AND AA SEQUENCE

Nucleic acid sequence of Protease T (SEQ.ID.NO.:1)

GACCACGGCCCTGCGCCCCAGCCAGGCCTGAGGACATGAGGCGGCCGGCGGGCGGTGCCGC
TCCTGCTGCTGCTGTGTTTTGGGTCTCAGAGGGCCAAGGCAGCAACAGCCTGTGGTCGCC
CCAGGATGCTGAACCGAATGGTGGGCGGGCAGGACACGCAGGAGGGCGAGTGGCCCTGGC
AAGTCAGCATCCAGCGCAACGGAAGCCACTTCTGCGGGGGCAGCCTCATCGCGGAGCAGT
GGGTCCCTGACGGCTGCGCACTGCTTCCGCAACACCTCTGAGACGTCCCTGTACCAGGTCC
TGCTGGGGGCAAGGCAGCTAGTGCAGCCGGGACCACACGCTATGTATGCCCCGGGTGAGGC
AGGTGGAGAGCAACCCCTGTACCAGGGCACGGCCTCCAGCGCTGACGTGGCCCTGGTGG
AGCTGGAGGCACCAAGTGCCTTACCAATTACATCCTCCCCGTGTGCCTGCCTGACCCCT
CGGTGATCTTTGAGACGGGCATGAACTGCTGGGTCACTGGCTGGGGCAGCCCCAGTGAGG
AAGACCTCCTGCCCCGAACCGCGGATCCTGCAGAACTCGCTGTGCCCATCATCGACACAC
CCAAGTGCAACCTGCTCTACAGCAAAGACACCGAGTTTGGCTACCAACCCAAAACCATCA
AGAATGACATGCTGTGCGCCGGCTTCGAGGAGGGCAAGAAGGATGCCTGCAAGGGCGACT
CGGGCGGGCCCCCTGGTGTGCCTCGTGGGTGAGTGTGGCTGCAGGCGGGGGTGATCAGCT
GGGGTGAGGGCTGTGCCCGCCAGAACCGCCCAGGTGTCTACATCCGTGTACCGCCCCACC
ACAACTGGATCCATCGGATCATCCCCAACTGCAGTTCCAGCCAGCGAGGTGGGCGGGC
AGAAGTGAGACCCCCGGGGCCAGGAGCCCCCTTGAGCAGAGCTCTGCACCCAGCCTGCCCG
CCCACACCATCCTGCTGGTCTCCAGCGCTGCTGTTCACCTGTGAGCCCCACCAGACT
CATTTGTAAATAGCGCTCCTTCCTCCCCCTCTCAAATACCCTTATTTTATTTATGTTTCTC
CCAATAAAAACCCAGCCTGTGTGCCAGCTG

>Amino Acid Sequence of Protease T (SEQ.ID.NO.:7)

MRRPAAVPLLLLLCFGSQRAKAATACGRPRMLNRMVGGQDTQEGEWPWQVSIQRNGSHFC
GGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAMYARVRQVESNPLYQGTA
SSADVALVELEAPVPFTNYILPVCLPDPVSIFETGMNCWVIGWGSPEEDLLPEPRILQK
LAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKDACKGDSGGPLVCLVGQS
WLQAGVISWGEQCARQNRPGVYIRVTAHHNWIHRIIPKLQFQPARLGGQK

FIG. 2

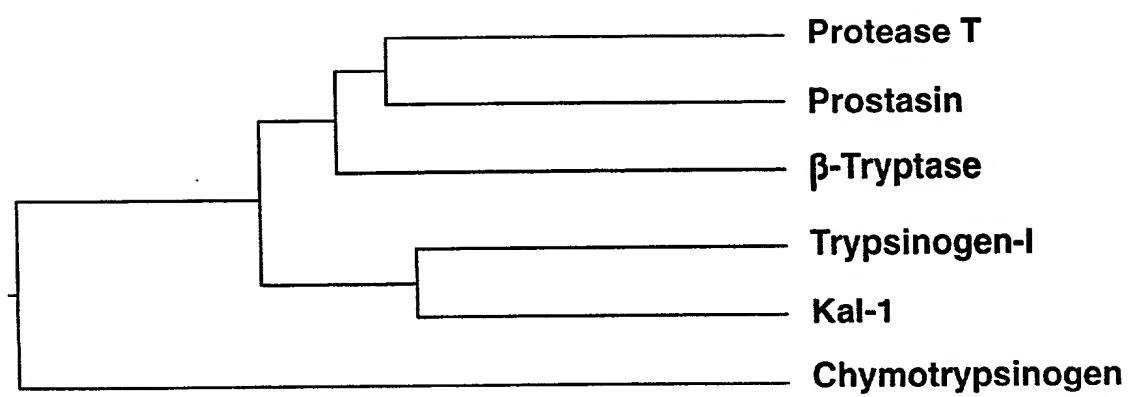


FIG. 3

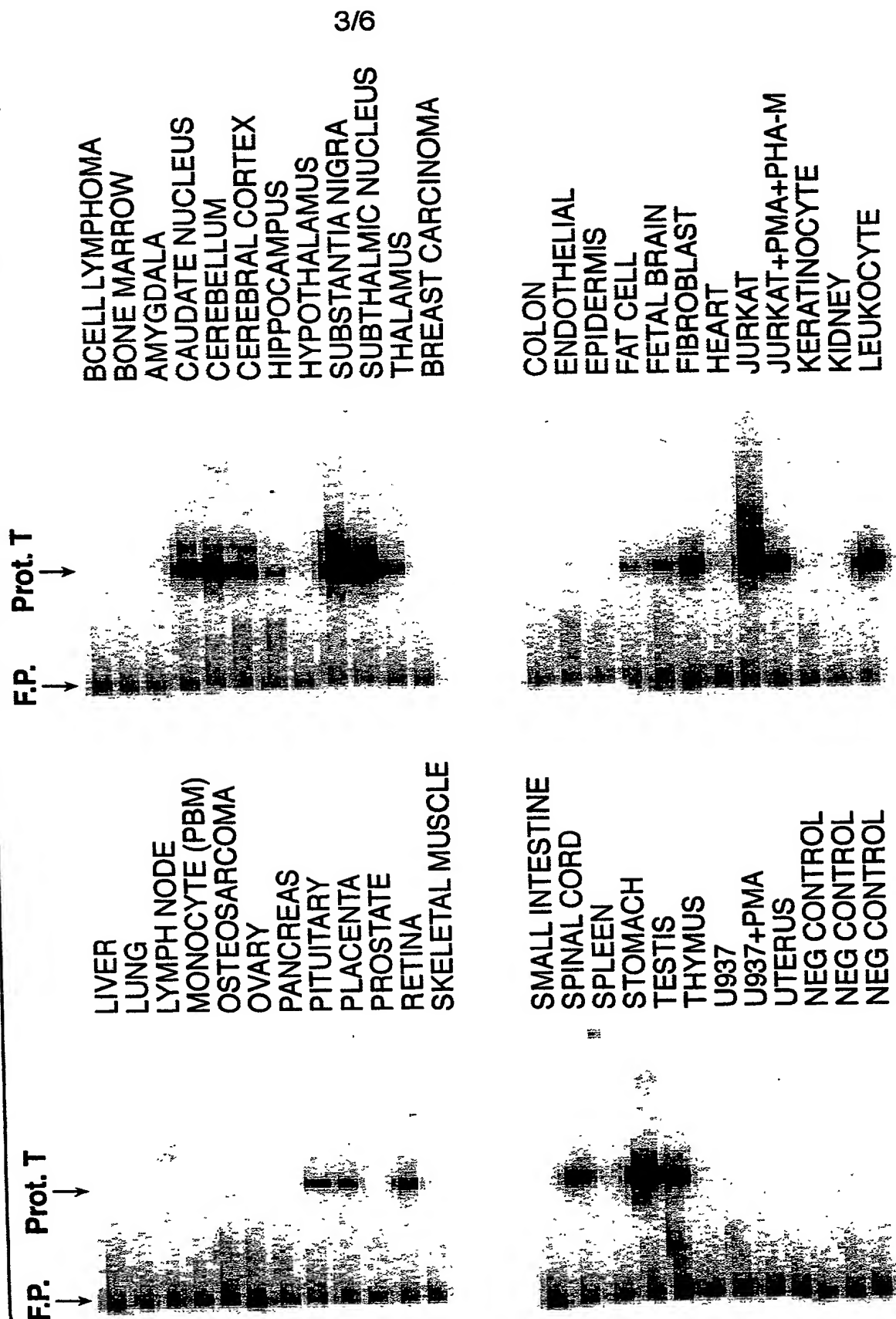


FIG. 4

FUSION PROTEIN

Nucleic Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:8).

GAATTCACCACCATGGACAGCAAAGGTTTCGTTCGAGAAATCCCGCCTGCTCCTGCTGCTG
GTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGTCTCCGACTACAAGGACGACGACGAC
GTGGACGCGGCCGCTCTTGTCTGCCCCCTTTGATGATGATGACAAGATCGTTGGGGGCTAT
GCTCTAGAGGAGGGCGAGTGGCCCTGGCAAGTCAGCATCCAGCGCAACGGAAGCCACTTC
TGCGGGGGCAGCCTCATCGCGGAGCAGTGGGTCTTGACGGCTGCGCACTGCTTCCGCAAC
ACCTCTGAGACGTCCCTGTACCAGGTCCTGCTGGGGGCAAGGCAGCTAGTGCAGCCGGGA
CCACACGCTATGTATGCCCGGGTGAGGCAGGTGGAGAGCAACCCCTGTACCAGGGCACG
GCCTCCAGCGCTGACGTGGCCCTGGTGGAGCTGGAGGCACCAGTGCCTTTCACCAATTAC
ATCCTCCCCGTGTGCCTGCCTGACCCCTCGGTGATCTTTGAGACGGGCATGAACTGCTGG
GTCACCTGGCTGGGGCAGCCCCAGTGAGGAAGACCTCCTGCCCGAACCGCGGATCCTGCAG
AAACTCGCTGTGCCCATCATCGACACACCCAAGTGCAACCTGCTCTACAGCAAAGACACC
GAGTTTGGCTACCAACCCAAAACCATCAAGAATGACATGCTGTGCGCCGGCTTCGAGGAG
GGCAAGAAGGATGCCTGCAAGGGCGACTCGGGCGGCCCCCTGGTGTGCCTCGTGGGTGAG
TCGTGGCTGCAGGCGGGGGTGATCAGCTGGGGTGAGGGCTGTGCCCGCCAGAACCGCCCA
GGTGTCTACATCCGTGTACCCGCCACCACAACCTGGATCCATCGGATCATCCCCAACTG
CAGTTCCAGCCAGCGAGGTGGGGCGGCCAGAAGTCTAGACATCACCATCACCATCACTAG
CGGCCGCTTCCCTTTAGTGAGGGTTAATGCTTCGAGCAGACATGATAAGATACATTGATG
AGTTTGGACAAACCACAACCTAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGTG
ATGCTATTGCTTTATTTGTAAACCATTTATAAGCTGCAATAAACAAGTTGAC

Amino Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:9).

MDSKGSSQKSRLLLLLLVVSNLLLCQGVVSDYKDDDDVDAAALAAPFDDDDKIVGGYALEE
GEWPWQVSIQRNGSHFCGGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAM
YARVRQVESNPLYQGTASSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGW
GSPSEEDLLPEPRILQKLAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKD
ACKGDSGGPLVCLVGQSWLQAGVISWGEQCARQNRPGVYIRVTAHHNWIHRIIPKLQFQP
ARLGGQKSRHHHHHH

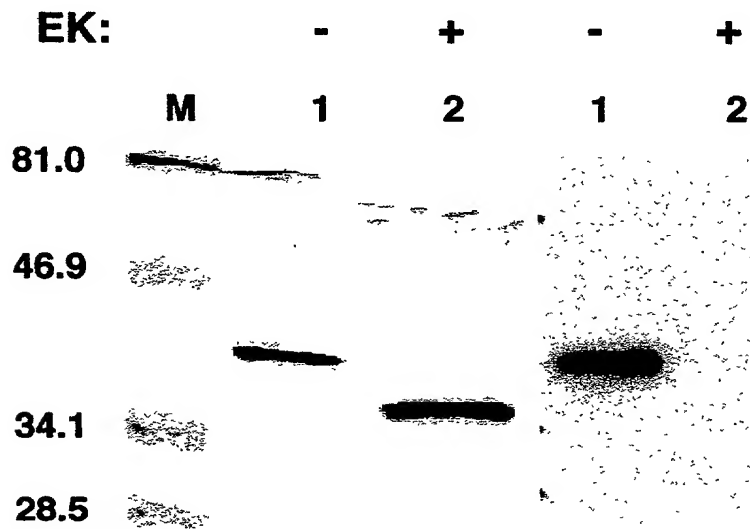
FIG. 5**Protease: PFEK-Protease T-HIS**

FIG. 6**Protease Activity of Protease T**